SERIES

CE

L O N G T E N G - V I

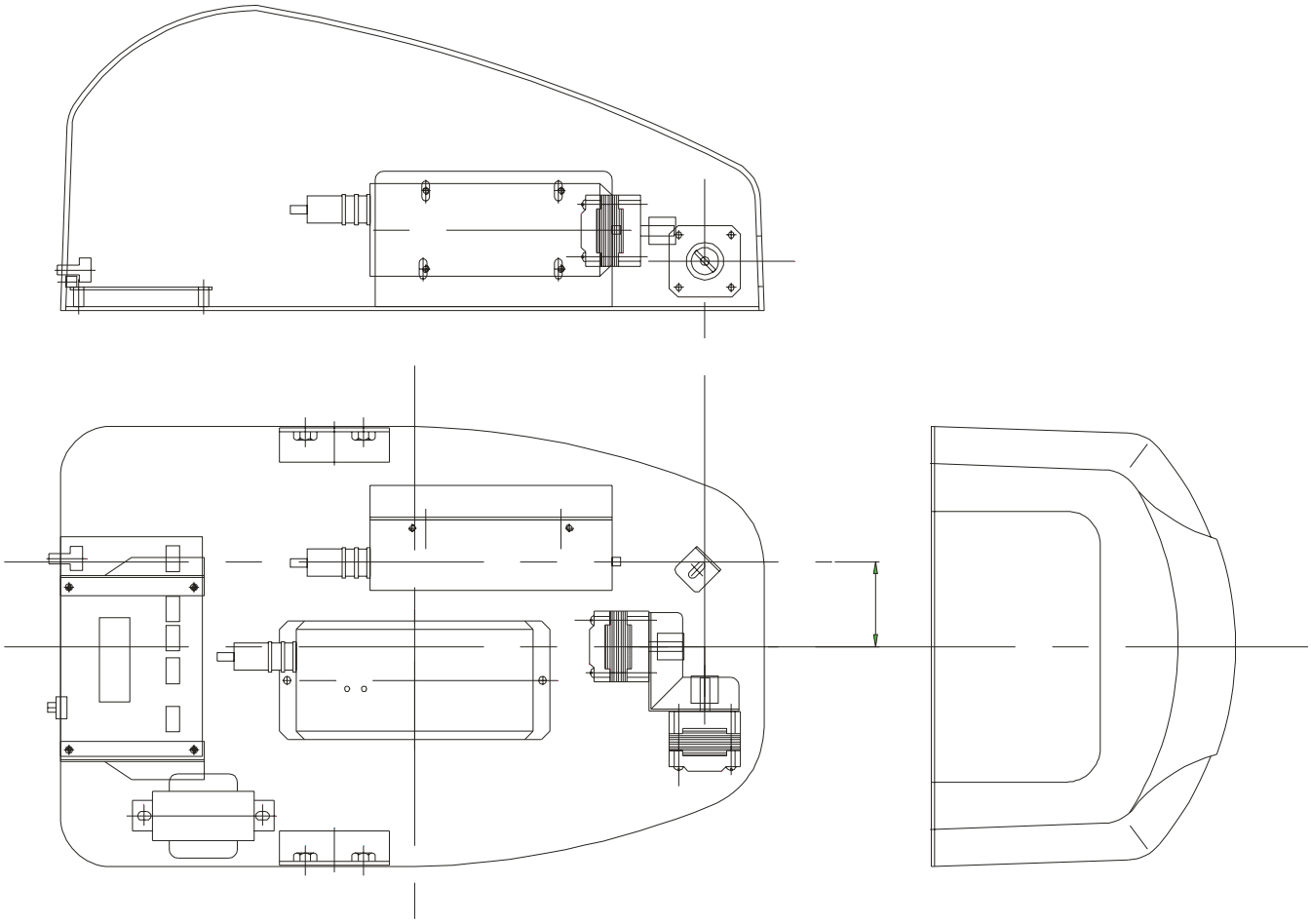
CRUISE LASER

USER MANUAL

www.yagang.com

SILVER STAR
Professional Lighting

DIMENSIONS



OPEN BOX TO CHECK

This product use new high temperature-resistance project plastic to make. It has a beautiful surface to show the characteristic of new stage lights. You could choose the color you like. It is made accord CE standard. It accord with the international DMX512 agreement. Single or several can be used at same time. It could be used in different place.

The product use semiconductor laser moving mirror scan to make many kinds of gobos and the size of gobos adjustable. Light touch control switch and code display make operation easier. When you receive the product, take it gently check if there is problem which cause in transportation. At the same time please pay attention to see if there are some parts enclosed:

1 Power line
1 Fuse line
1 User manual

INSTALLATION

- Please confirm whether the voltage you have is same as signed on the light before install.
- Installed by technician. It muse be placed safety and best light angle.
- Must keep space between light equipments and combustibles more than half a meter. Keep space between light equipments and wall more than 0.15 meter.
- The fans and vent-pipes should not be jammed by other equipment and decorate materials.
- There have a fuse line connection hole at the bottom of light. Please use a fuse line that could stand 10 double of light's weight to drill through fuse line connection hole to help install in safety view.
- The light must be fixture installed.
- In safety view please put ground wire into the ground.

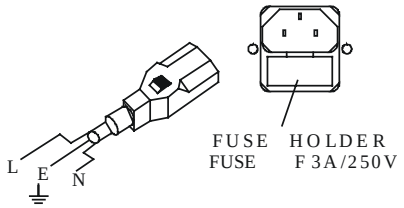
ATTENTION

- Please do not open the bottom cover yourself without permission. Operate it accord the user manual. Please call the technician in case the machine broken down.
- Do not use it under the damp and rain.
- Pay attention to prevent the light from strong bump.
- Prevent the dust into the product
- Keep the vent-pipe well while working.
- Keep the plug insert well before put into power.
- Don't look the light directly to prevent make some destroy with eyes.Don't light or extinguish frequently, otherwise the life span of the light tube will be shortened.
- In view of the special characters, after operated the light an hour the product shall be paused about 15 minutes before be used next time.
- Don't touch the product and draw the power line if you hand wet.
- Keep the space between light equipments and the lighted things more than one meter.

- Don't open the cover for there have no parts the user can repair.
- Don't operate the light without lamps.
- If the semiconductor laser doesn't as light as before or there have some faults on lens or other parts, please contact with distributor in time.
- When you want to retransfer the products, you'd better use the original package to shockproof

POWER SUPPLY MAINS

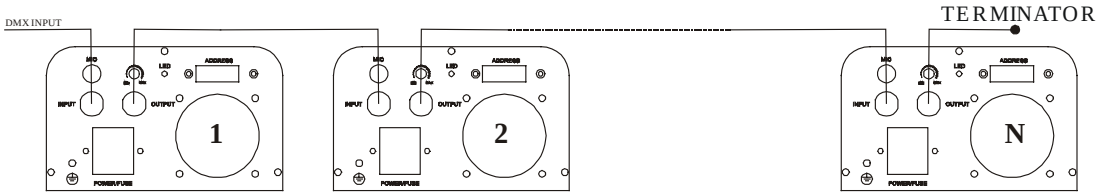
L = BROWN
E = GREEN/YELLOW
N = BLUE



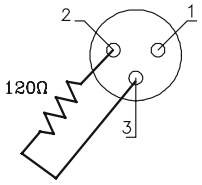
Use the plug provided to connect the mains power to the projector paying attention to the voltage and frequency marked on the panel of the projector.
It is recommended that each projector is supplied separately so that they may be individually switched on and off. IMPORTANT It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards. Power consumption of the equipment is 40W.

CONTROL CONNECTIONS

➢ Connect the XLR-XLR control line from the DMX output of controller to DMX input of each product and connect the DMX output of the first one to the DMX input of the second one. Connect all products in this way. Then use the attached circle plug to connect the signal output of last machine like picture show:

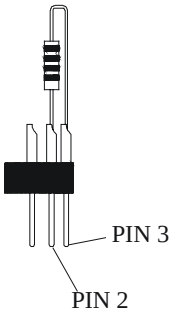


Note: Please remember the signal output of last machine must connect the attached circle plug. The circle plug connect a 120Ω resistance between 2 feet and 3 feet canon plug. The signal reflects phenomena can be avoided by using circle plug during DMX 512 signal transfer.



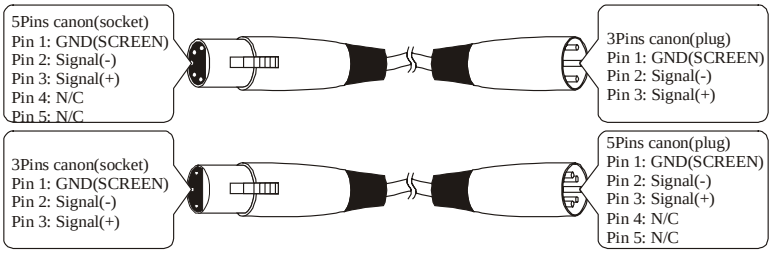
DMX TERMINATOR
CONNECTION

Connect a 120Ω (OHM) resistor across pins 2 and 3 in an XLR plug and insert into the DMX OUT socket on the last unit in the chain.

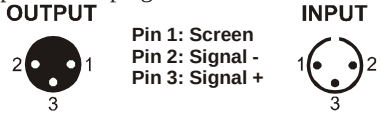


➢ The product use 3 feet XLR plug. If the controller you use is 5 feet XLR plug, you must use a interchange line from 5 feet to 3 feet as following picture:

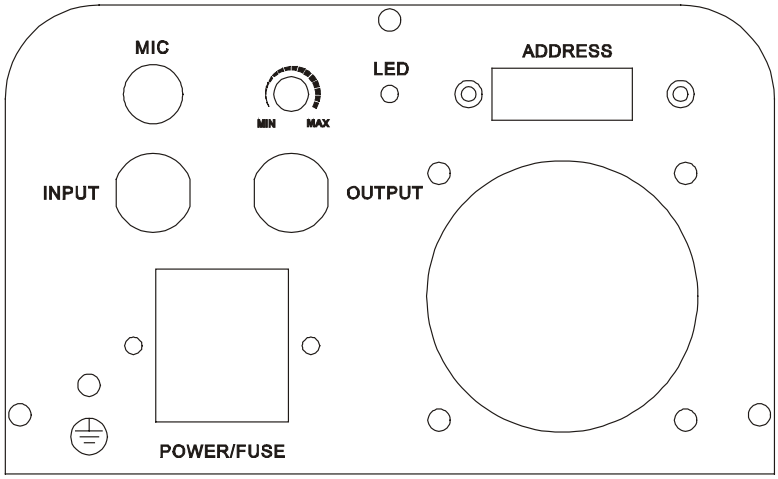
The transform of the controller line of 3 pins and 5 pins (plug and socket)



3 pins canon plug of DMX512 connect circuit

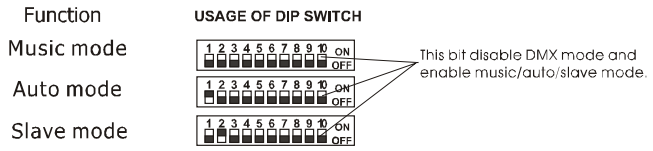


INSTRUCTION & FUNCTION



- **POWER /FUSE**: Power input; fuse set-in
- **INPUT**: Synchronized-signal control input socket.
- **OUTPUT**:Synchronized-signal control output socket.
- **MIN-MAX**: Sound operation sensitivity.
- **MIC**: Sound receive.
- **ADDRESS**: The 10th address code is Key Code. 1-9 codes will be function codes when the 10th code is OFF. The light will work under Music when the Function Code is 0 and work as Master light .The light work under Automatic when the Function Code is 1 and work as master light. If the Function Code is 2 or over 2, the light will work as Slave light. If the 10th code is ON, the light will work with DMX512 Signal and 1-9 codes will be DMX512 address code. The address code of first light usually is 1 and then the address code of second light is 11 and so on.

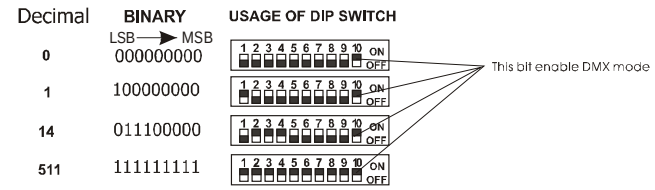
How to install music mode/auto mode/slave mode:


Function
USAGE OF DIP SWITCH
Music mode
Auto mode
Slave mode
1 2 3 4 5 6 7 8 9 10 ON OFF
This bit disable DMX mode and enable music/auto/slave mode.

How to install DMX Address code

in the binary, each digit only have "0" or "1" just correspond to "OFF" or "ON" switch situation.

Example for DMX Address Code:



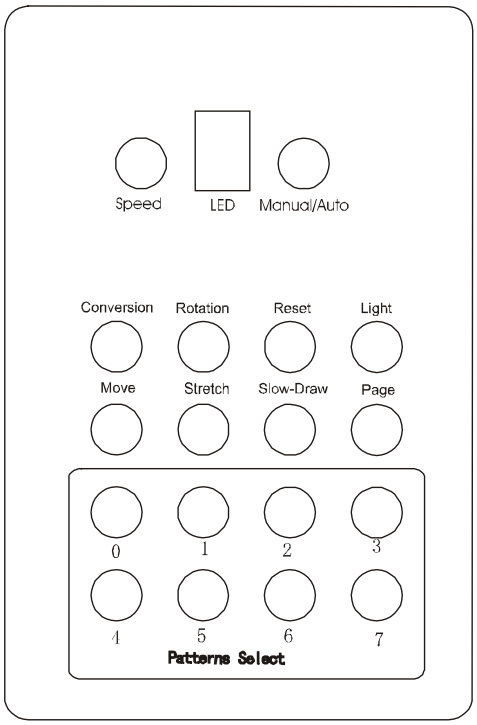
CONTROLLER OPERATE MODE

The product has 10 operate channels and use international standard DMX512. The details as following:

CHANNEL	DMX512 VALUE	FUNCTION
1 Control Mode	0~63	Music Active,3~7&9~10 channel no valid
	64~127	Auto Active,3~7&9~10channel no valid
	128~191	Manual mode (music active)
	192~255	Manual mode (auto active)
2 Blanking	0~63	Blanking
	64~127	Fluxion blanking
	128~191	No blanking
	192~255	Black-out
3 picture	0~255	86 pictures(0~255)/3=(0~85)
4 horizontal & vertical roll	0-63	No rolling
	64~127	Horizontal roll
	128~191	Vertical roll
	192~255	Horizontal & vertical roll
5 Dot rotation	0~127	No rotation
	128~255	rotation
6 Horizontal & vertical move	0-63	No move
	64~127	Horizontal move
	128~191	Vertical move
	192~255	Horizontal & vertical move
7 Horizontal & vertical stretch	0~63	No stretch
	64~127	Horizontal stretch
	128~191	Vertical stretch
	192~255	Horizontal & vertical stretch
8 Speed	0~255	12 grade speed(0~255)/23=(0~11)
9 Slow-draw speed	0~255	12grade speed(0~255)/23=(0~11)。Slow-draw speed >0，4~8channel no valid
10 Size	0~255	26 grade size(0~255)/10=(0~25) 0 original size 1~11 reduce 12~25blow up

NOTE:The 8th channel can not be 0 in any mode.

CONSOLE MANUAL



· **Speed**: Speed switch mode for figures of sound operation (manual or auto

· **Manual/Auto**: Switch mode for auto and manual figures

0: Music mode

1:Auto mode

2:Manual mode(Music Active)

3:Manual mode(Auto Active)

● **Light:** Switch mode for blanking or black-out light

0:Blanking

1:Fluxion blanking

2:No blanking

3:Black-out

· **Conversion**: Switch mode for horizontal and vertical figure change (manual)

0: Non-horizontal or vertical conversion

1: Only horizontal conversion

2: Only vertical conversion

3: Horizontal and vertical conversion

· **Rotation:** Switch mode for figure spinning (manual)

0: Spinning

1: Non-spinning

· **Reset:** Set all setting button to defaulting;

· **Move**: Switch mode for horizontal and vertical move (manual)

0: Non-horizontal or vertical move

1: Only horizontal move

2: Only vertical move

3: Horizontal and vertical move

SPECIFICATION

- Voltage: AC 220V~240V，50/60Hz
- Signal input power: -10~+10V
- X/Y axes beam scanning optical angle: 0~+/-40 ° C
- Input signal bandwidth: 0~1000Hz
- Shake-mirror float: < 30 ′
- Scanning float: 0
- Condition temperature: -10 ° C~40 ° C
- Condition humidity: relative humidity ≤ 95%
- Total power: 40W
- Laser light power: Class 3B, green 532nm/250mW×1
- Fuse: 250V 2A, Φ5×20mm
- Net weight: 7.5 kg
- Dimension: 45×31×19cm

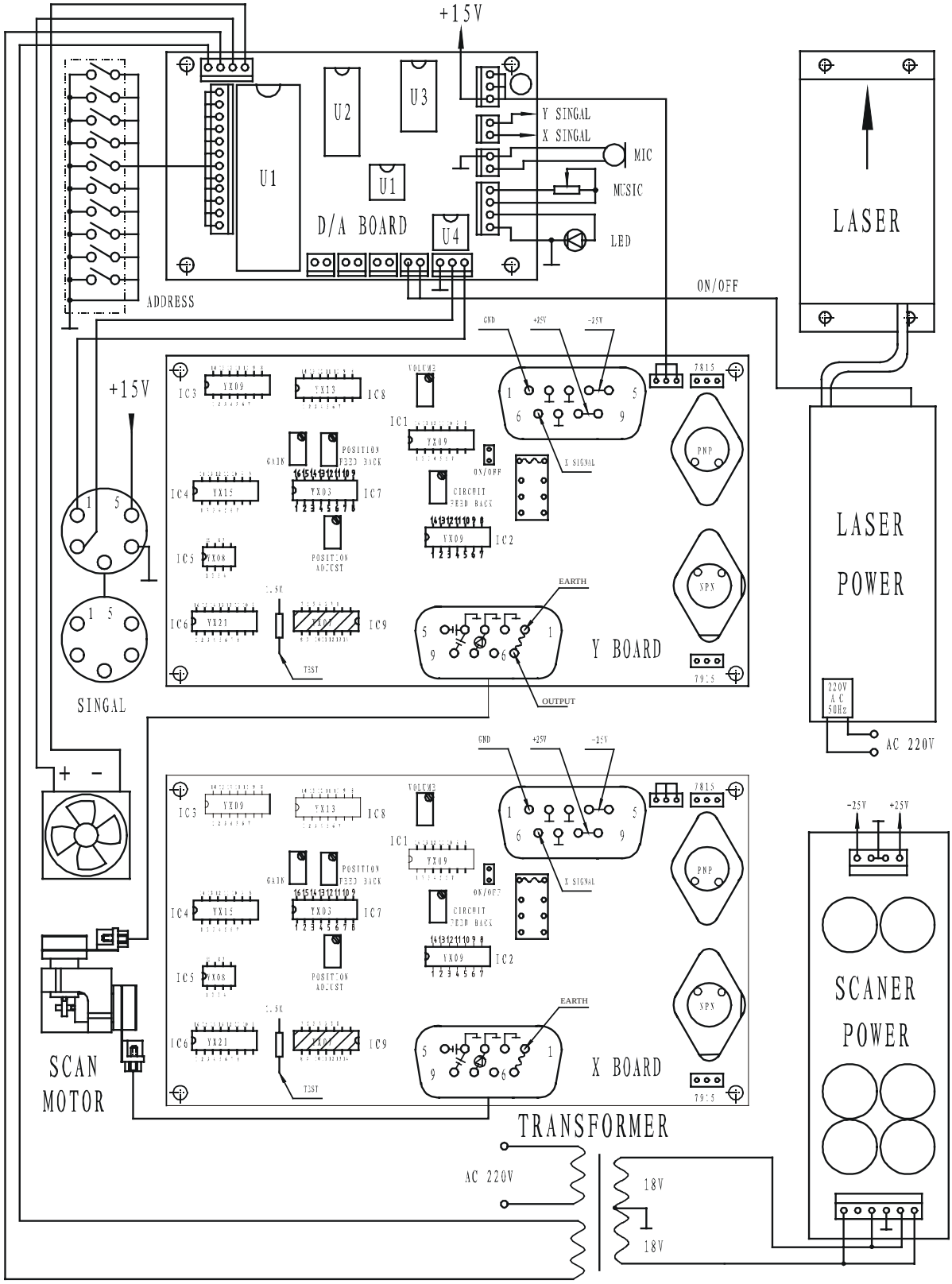
MAINTAIN

- The optical lens and illuminators must clean regular to protect a better effect. You can clean them accord the light's operate times and the using situation. Use soft cloth and original glass cleaner to clean. You'd better clean exterior optical system every 20 days and inside optical system every 60 days at least.
- Do not use organic solvent such as alcohol to clean the cover of light.

ANNOUNCEMENT

- When we delivery the goods out of factory, it's function is good and package is well. All users must obey all noted attentions and operate rules. We won't serve free of charge repair if the destroy be caused by your own wrong operate. All the problems which be caused by not operate accord the user manual also not the duty of distributor.
- We won't inform again if there have any more changes of user manual.

ELECTRICAL DIAGRAM



COMMON FAULTY MAINTAIN

SITUATION	REASON	FAULTY PART	PART No.
No power	Damaged fuse	fuse	09-00-2001-01
	Damaged transformer	60W/18V/10.8V	06-00-B017-01
	Damaged power board	213 power board	26-3A-213DYB-00
No music /no control	Damaged potentiometer	Potentiometer	04-30-0105-03
	Damaged mic	MIC	16-04-0001-00
	Damaged address board	Lt6 address code board	26-2A-LT6SW-00
	Internal circuit or wire disconnect	carefully study the electrical circuit diagram to check for loose connections	
	Damaged scan board	213 scan board	26-3A-SAOMIAO-00
No light output /light output low /no blanking	Dirty lens	carefully study the electrical circuit diagram to check for loose connections	
	Lens break off	lens	12-03-0003-00
	damaged laser diode	laser diode	07-01-0030-02
	damaged control PCB	Lt6 control PCB	26-2A-LT6V20-02
	Damaged CPU of control PCB	IC78E58	00-78E58-00
No patterns	Damaged control board	Lt6 control PCB	26-2A-LT6V20-02
	Damaged CPU of control board	IC78E58	00-78E58-00
	scan board of	213 scan board	26-3A-SAOMIAO-00
	Damaged scanner	scanner（LT6）	15-01-2211-00